

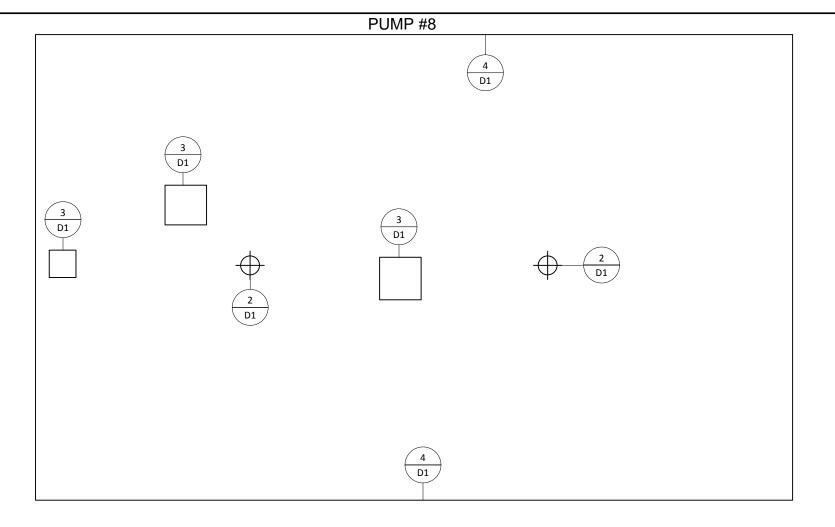
# CITY OF ST. CHARLES PUMP #8 & WELL #9 ROOF PROJECT 2015 450 37<sup>th</sup> Avenue | St. Charles, IL 60174





INDEX OF DRAWINGS
COVER SHEET
ROOF PLAN
D-1 DETAILS





WELL #9

# 5 D1 6 D1

# Core Information:

Pump #8: Concrete deck, tapered polyisocyanurate insulation, adhered EPDM membrane.

Well #9: Concrete deck, tapered polyisocyanurate insulation, ballasted EPDM membrane.



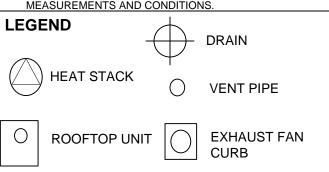
**ROOF PLAN** 

## SCOPE OF WORK:

- Remove existing roof assembly down to structural concrete deck(existing assembly consists of concrete deck, tapered polyisocyanurate insulation, ballasted EPDM membrane-Well #9. Existing assembly consists of concrete deck, tapered polyisocyanurate insulation, adhered EPDM membrane-Pump#8).
- Prime concrete deck with Garlaprime asphalt roof primer at a rate of .5 gallons/square.
- Install 1xPly HPR Torch base sheet as a vapor retarder directly to the primed concrete deck.
- Install 1/4:12 tapered polyisocyanurate insulation with a minimum of 1" thickness at drains on entire roof in insulation adhesive according to wind uplift calculations. Minimum R-value for assembly is 25.
- Install .5" Densdeck in insulation adhesive according to wind uplift calculations directly to tapered polyisocyanurate insulation.
- Install 1xPly HPR Torch Base sheet directly to Densdeck.
- Install 1xPly Stressply IV Mineral directly to torch base sheet.
- Coat entire roof with Garlabrite roof coating at a rate of 2.0 gallons/square.
- Install 1xPly HPR Torch Base Sheet and 1xPly Stressply IV Mineral cap sheet at all penetrations and perimeter.
- Install new Kynar-coated 24-ga. Steel sheet metal flashing and trim in accordance with Section 07 60 00 and drawings/details.
- Clean up and haul away all debris.

## **ROOF NOTES**

- TAKE SPECIAL CARE NOT TO OVERLOAD ANY ROOFS WITH EQUIPMENT, MATERIAL, DEBRIS, ETC.
- LEAVE THE ROOF IN WATERTIGHT CONDITION AT THE END OF EACH WORKING DAY.
- CONTRACTOR TO DISCONNECT AND REINSTALL ALL ELECTRICAL AND MECHANICAL EQUIPMENT AS REQUIRED ON ALL EXISTING CURBS TO COMPLETE PROJECT
- ALL NEW WOOD BLOCKING IS TO BE FASTEND AT 16"
   O.C. WITH STAINLESS STEEL FASTENERS AND WRAPPED IN SPECIFIED WATERPROOFING MEMBRANE PRIOR TO METAL COPING INSTALLATION. ALL PERIMETER METAL TO BE INSTALLED PER ANSI-SPRI ES1 REQUIREMENTS.
- VERIFY ANY DISCREPENCIES BETWEEN SPECIFICATIONS AND DRAWINGS. NOTIFY SCOTT GOEHRING (SGOEHRING@GARLANDIND.COM) IN WRITING FOR CLARIFICATION PRIOR TO SUBMITTING BID AND/OR COMMENCING WORK. DESIGN TO MEET IBC 2012.
- CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS.



GARLAND

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DWG BYJSR CHK BY:

, IL 60174

City of St. Charles 450 East 3° St. Charles,

EET: 2 OF 4

ROOF PLAN



/ of St. Charles Pump 8 & W 450 East 37<sup>th</sup> Street St. Charles, IL 60174

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-EXTRUDED ALUMINUM FRAM WITH WEEP HOLES -2" X 10" MINIMUM [51mm X 254mm] -METAL COUNTERFLASHING FASTENED 8" O.C. [203mm] WITH NEOPRENE WASHERS -HPR MODIFIED MEMBRANE FLASHING PLY 9" MIN. [228mm] ON FIELD -BASE FLASHING PLY 6" MIN. [152mm] ON FIELD -CANT FASTENED TO NAILER HPR TORCH MODIFIED MEMBRANE -TORCH BASE SHEET -INSULATION STAGGER-ALL JOINTS, FASTEN PER SPECIFICATION CONCRETE DECK-

—HPR FLASHING FASTENED 8" O.C. [203mm]

—HPR MODIFIED MEMBRANE FLASHING PLY 9" MIN. [228mm] ON FIELD

-BASE FLASHING PLY 6" MIN. [152mm] ON FIELD

HPR TORCH MODIFIED -MEMBRANE TORCH BASE-SHEET

-CANT STRIP

INSULATION, STAGGER ALL JOINTS, FASTEN PER SPECIFICATIONS

**POWER VENT** 

CONCRETE DECK

LEAD FLASHING 30" SQ. MIN. [762] SET IN MASTIC, WRAPPED DOWN 2" MIN. PRIME TOP SURFACE BEFORE FLASHING HPR MODIFIED MEMBRANE MIN. 48" - CLAMPING RING - BASE FLASHING PLY - BASE PLY HPR MODIFIED
MEMBRANE CONCRETE DECK DECK CLAMP

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**ROOF DRAIN** 

TAPER INSULATION 24" MIN. FROM CENTER OF DRAIN, STAGGER ALL JOINTS, FASTEN PER SPECIFICATION



HPR TORCH MINERAL SURFACE MODIFIED MEMBRANE

TORCH BASE SHEET

CONCRETE DECK

STAGGER ALL JOINTS
FASTEN ACCORDING TO SPECIFICATION

TYPICAL SECTION -

MINERAL FINISH

-METAL COPING

-SLOPE PER SPECIFICATION

CONTINUOUS CLEAT FASTENED 6" O.C. [152mm]

-FASTENERS APPROX. 24" O.C. [610mm] WITH NEOPRENE WASHERS THROUGH PRE-PUNCHED ELONGATED HOLES

\_HPR MODIFIED MEMBRANE FLASHING PLY 9" MIN [228mm] ON FIELD

HPR TORCH MODIFIED MEMBRANE

TORCH BASE SHEET-

INSULATION STAGGER— ALL JOINTS, FASTEN PER SPECIFICATION

-CONCRETE DECK

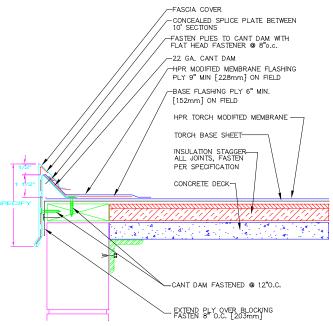
-CANT STRIP

RECOVERY BOARD -

D-1

24" MAX.

D-1



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METAL EDGE

SKYLIGHT D-1

8" MIN. [203mm]

D-1

4 4 4 4

**COPING CAP**